Patent Database Search Results; ("component analysis" or pca) and ("genetic" or evolve o... Page 1 of 2

USPTO PATENT FULL-TEXT AND IMAGE DATABASE

<u>Home</u>	<u>Quick</u>	Advanced	Pat Num	<u>Help'</u>
	Next List	, <u>Bottom</u>	View Cart	

Searching US Patent Collection...

Results of Search in US Patent Collection db for: ((("component analysis" OR pca) AND (("genetic" OR evolve) OR evolutionary)) AND noise): 250 patents.

Hits 1 through 50 out of 250

\$85°05" AND TO SECOND	THE RESERVE OF THE PARTY OF THE	Marie College		al Male Control
	100	-	DOD No.	
1000000	NAYI	357 E 13	HITC	- 6000
COMMITTEE STATE	Next		121150	40000

Jump To

Refine Search ("component analysis" or pca) and ("genetic" or evol

- PAT. Title
- 1 7,171,339 Method and system for analyzing multi-variate data using canonical decomposition
- 2 7,166,424 Fragments of fluorescent proteins for protein fragment complementation assays
- 3 7,163,273 Printing cartridge with two dimensional code identification
- 4 7,155,395 Preprinted print rolls for postal use in an image processing device
- 5 7,152,939 Printing cartridge with switch array identification
- 6 7,149,320 M Binaural adaptive hearing aid
- 7 7,144,553 Use of an array of polymeric sensors of varying thickness for detecting analytes in fluids
- 8 7,140,726 In Printing cartridge incorporating print media and an internal feed mechanism
- 9 7,136,716 Method for providing control to an industrial process using one or more multidimensional variables
- 10 7,135,616 II Biochemistry-related polynucleotides and polypeptides in plants
- 11 7,130,454 II Real-time facial recognition and verification system
- 12 7,129,095 Method and system for using a weighted response
- 13 7,128,386 Printer with capacitive printer cartridge data reader
- 14 7,127,104 T Vectorized image segmentation via trixel agglomeration
 15 7,124,065 T Determining a tangent space and filtering data onto a manifold
- 16 7,119,836 Print roll for use in a camera imaging system
- 17 7,117,188 Methods of identifying patterns in biological systems and uses thereof
- 18 7,116,749 Methods for acquiring multi spectral data of an object.
- 19 7,115,229 Apparatus and method for monitoring molecular species within a medium
- 20 7,110,139 II Printhead controller integrated circuit
- 21 7,109,001 To COBRA gene and uses thereof

- Patent Database Search Results: ("component analysis" or pca) and ("genetic" or evolve o... Page 2 of 2
- 22 7,105,301 Detecting molecular binding by monitoring feedback controlled cantilever deflections
- 23 7,104,958 M Systems and methods for investigating intracranial pressure
- 24 7,100,834 Method of data distribution using ink dots on cards
- 25 7,097,973 M Method for monitoring molecular species within a medium
- 26 7.097.104 III Image manipulation device
- 27 7.092,011 T Camera for printing on media provided on print roll
- 28 7,089,780 Apparatus, systems and methods for detecting and transmitting sensory data over a computer network
- 29 7.087,896 M Mass spectrometric quantification of chemical mixture components
- 30 7,084,951 The Combined media- and ink-supply cartridge
- 31 7.083.108 II Redundantly encoded data structure for encoding a surface
- 32 7.073.713 Tard having coded data and visible information, for operating a device
- 33 7,072,770 Method for identifying components of a mixture via spectral analysis
- 34 7,068,842 M System and method for object identification and behavior characterization using video analysis Add Har
- 35 7,062,504 The Creating ensembles of oblique decision trees with evolutionary algorithms and sampling Still Action is
- 36 7.062,385 Intelligent electro-optical nucleic acid-based sensor array and method for detecting volatile compounds in ambient air
- 37 7,057,721 T Wide field method for detecting pathogenic microorganisms
- 38 7,055,927 Method of identifying printing cartridge characteristics with capacitive sensors
- 39 7,054,792 M Method, computer program, and system for intrinsic timescale decomposition, filtering, and automated analysis of signals of arbitrary origin or timescale
- 40 7.054.468 Thrace recognition using kernel fisherfaces
- 41 7,052,103 T Printing device for use with a printing cartridge having capacitive sensor identification
- 42 7.050.143 III Camera system with computer language interpreter use connections
- 43 7,044,589 T Printing cartridge with barcode identification
- 44 7.041.063 Noninvasive measurement of chemical substances
- 45 7.039.621 System, method, and computer program product for representing object relationships in a multidimensional space
- 46 7.039.446 Indirect measurement of tissue analytes through tissue properties
- 47 7.033.781 The Whole cell engineering by mutagenizing a substantial portion of a starting genome, combining mutations, and optionally repeating
- 48 7,031,778 Temporary expanding integrated monitoring network

1...३ 👅 १ व जन्महर् केर्यु क्रिक्टिक

John Johann Hivemore

all) for the control organization in the

- 49 7,026,121 Methods and compositions for diagnosing and monitoring transplant rejection
- 50 7,024,312 Methods for making character strings, polynucleotides and polypeptides having desired characteristics



Patent Database Search Results: ("component analysis" or pca) and ("genetic" or evolve o... Page 1 of 2

USPTO PATENT FULL-TEXT AND IMAGE DATABASE

<u>Home</u>	<u>Quick</u>	Advanced	Pat Num	<u>Help</u>
Prev	. List Next	List Bott	om View	Cart

Searching US Patent Collection...

Results of Search in US Patent Collection db for:

((("component analysis" OR pca) AND (("genetic" OR evolve) OR evolutionary)) AND noise):

250 patents.

Hits 51 through 100 out of 250

A		Sec. 25. 15.		e de creation	5
257	T		-02		10000000
	-	7//52.	31 13		- 000 XXXXX
	Z. 24	44.7	J. U 53		
5.850,000	3 15 15 300	W.W. 1907	eroto, de	NAME OF STREET	A MARINE STATE

Next 50 Hits

Jump To

Refine Search ("component analysis" or pca) and ("genetic" or evol

PAT. NO. Title offers on.

- 51 7,016,885 Self-designing intelligent signal processing system capable of evolutional learning for classification/recognition of one and multidimensional signals
- 52 7,016,787 T Characterizing biological stimuli by response curves
- 53 7,007,852 Data distribution mechanism in the form of ink dots on cards
- 54 7,007,035 Parallel object-oriented decision tree system
- 55 7,006,939 II Method and apparatus for low cost signature testing for analog and RF circuits
- 56 6,999,898 T Classification of deviations in a process
- 57 6,996,549 II Computer-aided image analysis
- 58 6,996,478 Multiple sensing system and device
- 59 6,996,476 T Methods and systems for gene expression array analysis
- 60 6,994,971 T Particle analysis assay for biomolecular quantification
- 61 6,990,364 T Noninvasive measurement of glucose through the optical properties of tissue
- 62 6,988,056 T Signal interpretation engine
- 63 6,987,564 Automatic correction for continuum background in laser induced breakdown and Raman spectroscopy
- 64 6,987,001 Methods and compositions using stearoyl-CoA desaturase to identify triglyceride reducing therapeutic agents
- 65 6,986,562 II Printing cartridge with capacitive sensors for identification of characteristics
- 66 6,985,779 Monitoring system for an industrial process using one or more multidimensional variables is in the system for an industrial process using one or more multidimensional

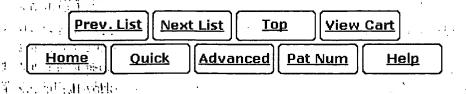
- 68 6,975,944 Method and apparatus for monitoring materials used in electronics
- 69 6,973,158 T Multi-target X-ray tube for dynamic multi-spectral limited-angle CT imaging
- 70 6,965,816 T PFN/TRAC system FAA upgrades for accountable remote and robotics control to stop the unauthorized use of aircraft and to improve equipment management and public safety in transportation
- 71 6,961,636 T Method and apparatus for dynamically monitoring controller tuning parameters
- 72 6,956,961 II Extracting shape information contained in cell images
- 73 6,954,722 III Methods and systems for data analysis
- 74 6,954,254 T Printing cartridge with ink and print media supplies

17、京都部1966年 マイル・カ

- 75 6,953,663 I Polymorphism detection
- 76 6,953,235 T Printing cartridge with a data-carrying integrated circuit device
- 77 6,950,493 T Dynamic multi-spectral CT imaging
- 78 6,950,492 Dynamic multi-spectral X-ray projection imaging
- 79 6,948,661 II Data structure encoded on a surface of an object
- 80 6,941,287 II Distributed hierarchical evolutionary modeling and visualization of empirical data
- 81 6,919,566 Method of calibrating a spectroscopic device
- 82 6,918,542 I Data distribution mechanism in the form of ink dots on cards
- 83 6,917,952 T Application-specific method and apparatus for assessing similarity between two data objects and Application objects are application objects and Application objects and Application objects are application object of the Application objects and Application objects are application objects and Application o
- 84 6,917,845 Method for monitoring environmental condition using a mathematical model
- 85 6,913,930 Analytical method and apparatus therefor involving continuous titration
- 86 6,907,436 T Method for classifying data using clustering and classification algorithm supervised
- 87 6,907,369 Method and apparatus for modifying design constraints based on observed performance perfo
- 88 6,907,280 Method and apparatus for objectively measuring pain, pain treatment and other related techniques
- 89 <u>6,883,364</u> **T** Portable sensor
- 90 6,882,992 T Neural networks for intelligent control
- 91 6,882,990 Methods of identifying biological patterns using multiple data sets
- 92 6,879,729 T Parallel object-oriented, denoising system using wavelet multiresolution analysis
- 93 6,879,341 T Digital camera system containing a VLIW vector processor
- 94 6,876,760 II Classifying cells based on information contained in cell images producing the production of the producti
- 95 6.874,364 T System for monitoring mechanical waves from a moving machine
- 96 6,865,509 T System for providing control to an industrial process using one or more multidimensional variables
- 97 6,857,719 T Printing cartridge with pressure sensor array identification
- 98 6,853,920 T Control for an industrial process using one or more multidimensional variables
- 99 6,850,274 🖪 Image texture mapping camera
- 100 6,839,636 I Multiple sensing system and device

I de constituent idea. A

रतन्त्रपूर्वे भ्राकृतिस्य



อยู่สมัดสินิท คับ สังกา

ा तम् अत्यक्ति । अस्

a the a stationales absorbing conceving I

USPTO PATENT FULL-TEXT AND IMAGE DATABASE

<u>Home</u>	Quick	Advance	d Pat	<u>Num</u>	<u>Help</u>
Prev	. List Ne	xt List B	ottom	View	Cart

Searching US Patent Collection...

Results of Search in US Patent Collection db for: ((("component analysis" OR pca) AND (("genetic" OR evolve) OR evolutionary)) AND noise):

250 patents.

Hits 101 through 150 out of 250



BILL OF YEAR



("component analysis" or pca) and ("genetic" or evol-

PAT. NO:

an Title Machina

M. J. Oak

- 101 6,837,095 Apparatus, systems and methods for detecting and transmitting sensory data over a computer network

 102 6,836,240 Waveform synthesis for imaging and ranging applications
- 103 6,835,927 Mass spectrometric quantification of chemical mixture components
- 104 6,834,237 Method and system for classifying a biological sample
- 105 6,833,247 TRegulated prostate cancer genes
- 106 6,831,681 In Preprinted print rolls for use in an image processing device
- 107 6,828,933 Waveform synthesis for imaging and ranging applications
- 108 6,826,300 TFeature based classification
- 109 6,825,800 Waveform synthesis for imaging and ranging applications
- 110 6.819.787 TRobust stain detection and quantification for histological specimens based on a physical model for stain absorption
- 111 6,816,605 Methods and systems for biometric identification of individuals using linear optical spectroscopy
- 112 6,805,863 Methods of modulating immune coagulation
- 113 6,803,989 II Image printing apparatus including a microcontroller
- 114 6.789.069 Method for enhancing knowledge discovered from biological data using a learning
- 115 6,788,336 In Digital camera with integral color printer and modular replaceable print roll
- 116 6,786,420 In Data distribution mechanism in the form of ink dots on cards
- 117 6,760,715 The Enhancing biological knowledge discovery using multiples support vector machines

- Patent Database Search Results: ("component analysis" or pca) and ("genetic" or evolve o... Page 2 of 2
- 118 6,759,010 Use of an array of polymeric sensors of varying thickness for detecting analytes in fluids
- 119 6,750,944 II Programmable camera system with software interpreter
- 120 6,750,901 T Digital instant printing camera with image processing capability
- 121 6,746,960 I Electronic techniques for analyte detection
- 122 6,745,156 T Petroleum exploration and prediction apparatus and method
- 123 6,743,599 T Compositions and assays utilizing ADP or phosphate for detecting protein modulators
- 124 6,714,925 II System for identifying patterns in biological data using a distributed network
- 125 6,713,258 II Methods for genotyping by hybridization analysis
- 126 6,713,257 T Gene discovery using microarrays
- 127 6,703,241 T Referencing and rapid sampling in artificial olfactometry
- 128 6,702,417 In Printing cartridge with capacitive sensor identification
- 129 6,701,026 Method and apparatus for cancelling lighting variations in object recognition
- 130 6,691,045 II Method for determining discrete quantitative structure activity relationships
- 131 6,690,817 T Spectral bio-imaging data for cell classification using internal reference
- 132 6,683,455 II Methods for spectral analysis and their applications: spectral replacement
- 133 6,681,132 T Sodium magnetic reasonance imaging used in diagnosing tumors and assessing response to treatment
- 134 6,680,369 Motor proteins and methods for their use
- 135 6,678,413 T System and method for object identification and behavior characterization using video analysis:
- 136 6,678,398 T Dual mode real-time screening and rapid full-area, selective-spectral, remote imaging and analysis device and process

o haje tak dater hiji protesto

companied vity selection ships

े दिनीय े पुर्वीर अधिक

- 137 <u>6,675,164</u> II Parallel object-oriented data mining system
- 138 6,675,103 I Visualizing high dimensional descriptors of molecular structures in the latest and the second structures and the second structures are the second structures and the second structures are the second structures and the second structures are the second structures a
- 139 6,671,056 T Method and system for optical spectrum analysis with a depolarized local oscillator
- 140 6,665,454 T Dot adjacency compensation in optical storage systems using ink dots
- 141 <u>6,658,915</u> **P**ortable sensor
- 142 6,644,771 T Printing cartridge with radio frequency identification
- 143 <u>6,636,216</u> I Digital image warping system
- 144 6,631,333 Methods for remote characterization of an odor
- 145 6.628,821 T Canonical correlation analysis of image/control-point location coupling for the automatic location of control points
- 146 6,627,154 II Electronic techniques for analyte detection
- 147 6,620,621 Method for the detection of cellular abnormalities using fourier transform infrared spectroscopy
- 148 6,618,140 II Spectral deconvolution of fluorescent markers
- 149 6,618,117 T Image sehsing apparatus including a microcontroller
- 150 6,610,367 The Use of an array of polymeric sensors of varying thickness for detecting analytes in fluids at a transfer of the sensors of varying thickness for detecting analytes in fluids.



USPTO PATENT FULL-TEXT AND IMAGE DATABASE

<u>Home</u>	Quick	Advanced	Pat Num	<u>Help</u>
Prev	. List Nex	t List Bott	om View	Cart

Searching US Patent Collection...

Results of Search in US Patent Collection db for:

((("component analysis" OR pca) AND (("genetic" OR evolve) OR evolutionary)) AND noise): 250 patents.

Hits 151 through 200 out of 250

Prev. 50 Hits

Next 50 Hits

Jump To

Refine Search ("component analysis" or pca) and ("genetic" or evol

PAT.

in Title weeking.

- 151 6,586,186 Polymorphism detection
- 152 6,577,754 Robust stain detection and quantification for histological specimens based on a physical model for stain absorption
- 153 6,570,608 System and method for detecting interactions of people and vehicles
- 154 6,565,181 Printing cartridge with switch array identification
- 155 6,560,352 Apparatus and method of biometric identification or verification of individuals using optical spectroscopy
- 156 6,558,955 Methodology for predicting and/or diagnosing disease
- 157 6,556,853 Spectral bio-imaging of the eye
- 158 6,548,270 II DNA encoding human acid-sensing ion channel BNaC4 (ASIC4)
- 159 6,547,364 In Printing cartridge with an integrated circuit device
- 160 6,546,378 I Signal interpretation engine
- 161 6,544,193 I Noninvasive measurement of chemical substances
- 162 6,542,645 Adaptive tracking of dots in optical storage system using ink dots
- 163 6,537,211 II Flourescence imaging endoscope
- 164 6,503,719 Methods and apparatus for detecting polynucleotide hybridization
- 165 6,496,813 Classifying apparatus using a combination of statistical methods and neuronal networks, designed in particular for odour recognition
- 166 6,495,341 Method and apparatus for monitoring a physical or chemical conversion of a grain material
- 167 RE37,933 T Viral vectors and their use for treating hyperproliferative disorders, in particular restenosis

http://patft.usptolgov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=%2Fnetahtml... 2/20/2007

- 168 6,493,637 In Coincidence detection method, products and apparatus
- 169 6,476,863 Image transformation means including user interface
- 170 6,459,495 In Dot center tracking in optical storage systems using ink dots
- 171 <u>6,453,246</u> System, method, and computer program product for representing proximity data in a multi-dimensional space
- 172 6,450,008 Food applications of artificial olfactometry
- 173 6,442,525 M System for authenticating physical objects
- 174 6,438,409 Methods of characterizing ventricular operations and applications thereof
- 175 6,431,669 Method and apparatus for information storage in a portable print roll
- 176 6,424,859 In Diagnosis of rheumatoid arthritis in vivo using a novel spectroscopic approach
- 177 6,422,061 Apparatus, systems and methods for detecting and transmitting sensory data over a computer network
- 178 6,421,614 Photometer system for obtaining reliable data
- 179 6,419,361 M Spectral bio-imaging of the eye
- 180 6,418,783 III Handheld sensing apparatus
- 181 6,416,154 M Printing cartridge with two dimensional code identification
- 182 6,415,054 Target detection for dot region alignment in optical storage systems using ink dots
- 183 6,410,254 Compositions and assays utilizing ADP or phosphate for detecting protein modulators
- 184 6,405,065 M Non-invasive in vivo tissue classification using near-infrared measurements
- 185 6,403,089 Methods tof modulating immune coagulation and a mind data for
- 186 6,400,828 Canonical correlation analysis of image/control-point location coupling for the automatic location of control points
- 187 6,387,329 III Use of an array of polymeric sensors of varying thickness for detecting analytes in fluids
- 188 6,379,929 The Chip-based isothermal amplification devices and methods the chip of the control of the chip of t
- 189 6,362,869 Authentication system for camera print rolls
- 190 6,362,868 Print media roll and ink replaceable cartridge and applications replace to the state of the sta
- 191 6,356,715 M Prints remaining indicating for camera with variable length print capability, exect
- 192 6,341,629 Tasting device and method of use
- 193 6,339,950 Process for determining the number of components in peaks, bands, and signals of chromatograms, electrograms, and spectrograms
- 194 6,333,501 Methods, apparatus, and articles of manufacture for performing spectral calibration

क करती सक <u>बहुद श्</u>रेशन हमूल प्रश्नीत् ink टेक्टर

an unite for detailing repletamoditions

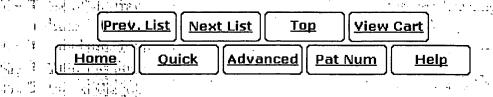
orthy the Pills

- 195 6,317,192 III Utilization of image tiling effects in photographs.
- 196 6,315,200 In Encoded data card reading system
- 197 <u>6,300,063</u> Polymorphism detection
- 198 6,297,018 Methods and apparatus for detecting nucleic acid polymorphisms
- 199 6,276,798 In Spectral bio-imaging of the eye

The management of the

Mittal Color by opening a man

200 <u>6,251,615</u> **T** Cell analysis methods



Patent Database Search Results: ("component analysis" or pca) and ("genetic" or evolve o... Page 1 of 3

USPTO PATENT FULL-TEXT AND IMAGE DATABASE

<u>Home</u>	Quick	Advanced	Pat Num	<u>Help</u>
	Prev. List	<u>Bottom</u>	View Cart	,

Searching US Patent Collection...

Results of Search in US Patent Collection db for:

No. 3 Results:

((("component analysis" OR pca) AND (("genetic" OR evolve) OR evolutionary)) AND noise):

250 patents.

Hits 201 through 250 out of 250

	****		****	-	******
	2444	000000000000000000000000000000000000000	. 2000	2200	2002
22222	Pre	12.000	00 S I		
S 2000		V 2000 - 0	1881	alli S	100000
124459	300 to 100 to	100000	4 - 500 - 1	20.0	.0003040

Jump Ton

Refine Search

("component analysis" or pca) and ("genetic" or evol-

PAT.

Title

- 201 6,236,047 Method for multi-spectral analysis of organic blood analytes in noninvasive infrared spectroscopy
- 202 6,234,006 Handheld sensing apparatus
- 203 6,223,133 Method for optimizing multivariate calibrations
- 204 6,217,165 II Ink and media cartridge with axial ink chambers
- 205 6,212,824 Methods for classifying plants for evaluation and breeding programs by use of remote sensing and image analysis technology
- 206 6,200,798 Defective recombinant adenoviruses with inactivated IVa2 gene
- 207 <u>6,198,532</u> I Spectral bio-imaging of the eye
- 208 <u>6,146,897</u> Method for the detection of cellular abnormalities using Fourier transform infrared spectroscopy
- 209 6,122,042 Devices and methods for optically identifying characteristics of material objects
- 210 6,103,199 The Capillary electroflow apparatus and method
- 211 6,085,576 II Handheld sensing apparatus
- 212 6,066,459 Method for simultaneous detection of multiple fluorophores for in situ hybridization and multicolor chromosome painting and banding
- 213 6,055,325 M Color display of chromosomes or portions of chromosomes
- 214 6,051,559 The Cloning and characterizing of genes associated with long-term memory
- 215 6,040,578 Method and apparatus for multi-spectral analysis of organic blood analytes in noninvasive infrared spectroscopy
- 216 6,035,246 M Method for identifying known materials within a mixture of unknowns
- 217 6,018,587 Method for remote sensing analysis be decorrelation statistical analysis and hardware therefor
- 218 6,017,390 Transfer for the first of the

- 219 6,015,667 M Multicomponent analysis method including the determination of a statistical confidence interval
- 220 5,945,676 Method and apparatus for multi-spectral analysis in noninvasive NIR spectroscopy
- 221 5,936,731 Method for simultaneous detection of multiple fluorophores for in situ hybridization and chromosome painting
- 222 5,931,779 Real-time in-vivo measurement of myoglobin oxygen saturation
- 223 5,926,773 System for identifying known materials within a mixture of unknowns
- 224 <u>5,912,165</u> Method for chromosome classification by decorrelation statistical analysis and hardware therefore
- 225 5,906,919 Method for chromosomes classification
- 226 5,871,946 Method for determining activity of enzymes in metabolically active whole cells
- 227 5,871,908 II Process for the determination of in vitro amplified nucleic acids
- 228 5,857,462 Systematic wavelength selection for improved multivariate spectral analysis
- 229 5,851,521 Viral vectors and their use for treating hyperproliferative disorders, in particular restenosis
- 230 <u>5,849,513</u> Assay reagent
- 231 5,834,203 Method for classification of pixels into groups according to their spectra using a plurality of wide band filters and hardwire therefore
- 232 5,822,742 Dynamically stable associative learning neural network system
- 233 <u>5,817,462</u> Method for simultaneous detection of multiple fluorophores for in situ hybridization and multicolor chromosome painting and banding
- 234 5,812,930 II Information handling systems with broadband and narrowband communication channels between repository and display systems
- 235 5,804,203 Topical product formulations containing strontium for reducing skin irritation
- 236 5,798,262 Method for chromosomes classification
- 237 5,784,162 Spectral bio-imaging methods for biological research, medical diagnostics and therapy
- 238 <u>5,776,720</u> **Assay reagent**
- 239 5,764,819 T Methods for classifying plants for evaluation and breeding programs by use of remote sensing and image analysis technology
- 240 5,752,007 System and method using separators for developing training records for use in creating an empirical model of a process
- 241 5,747,806 T Method and apparatus for multi-spectral analysis in noninvasive nir spectroscopy
- 242 5,733,719 Method of making an assay compound

eng ing kalabasa

- 243 5,727,128 System and method for automatically determining a set of variables for use in creating a process model
- 244 5,719,024 Method for chromosome classification by decorrelation statistical analysis and hardware therefore
- 245 5,698,411 Method for determining activity of enzymes in metabolically active whole cells
- 246 5,435,309 \(\mathbb{T} \) Systematic wavelength selection for improved multivariate spectral analysis
- 247 5,424,959 Interpretation of fluorescence fingerprints of crude oils and other hydrocarbon mixtures using neural networks
- 248 5,361,628 System and method for processing test measurements collected from an internal combustion engine for diagnostic purposes
- 249 5,166,747 Apparatus and method for analyzing the composition of formation fluids
- 250 4,994,671 T Apparatus and method for analyzing the composition of formation fluids

Patent Database Search Results: ("component analysis" or pca) and ("genetic" or evolve o... Page 3 of 3

Prev. List Top View Cart

Home Quick Advanced Pat Num Help



Home | Login | Logout | Access Information | Ale

IEEE XPLORE GUIDE

Welcome United States Patent and Trademark Office

		0515011
服Search Results	BROWSE	SEARCH
Results for "((('component analysis' or pca) a	nd ('genetic' or evolve or evolutionary) and	nolse) <in>me"</in>
Your search matched 6 of 1498420 documents.	•	

⊠ e-mail

» Search Option		BB a all	6. Ca.	b
View Session	History		fy Sea	ent analysis' or pca) and ('genetic' or evolve or evolutionary) and noise) <in< th=""></in<>
New Search				Search 1
	·		Chec	k to search only within this results set
» Көу		Displ	lay Fo	rmat:
IEEE JNL	IEEE Journal or Magazine			
IET JNL	IET Journal or Magazine	ţ-(vi	ew s	elected items Select All Deselect All
IEEE CNF	IEEE Conference Proceeding			
IET CNF	IET Conference Proceeding		1.	Artificial-intelligence approach for biomedical sample characterization using Raman spectro
IEEE STD	IEEE Standard			Zhengmao Ye; <u>Automation Science and Engineering, IEEE Transactions on [see also Robotics and Automation, II</u>
******				Volume 2, Issue 1, Jan. 2005 Page(s):67 - 73
				Digital Object Identifier 10.1109/TASE.2004.840071
•				AbstractPlus References Full Text: PDF(544 KB) IEEE JNL Rights and Permissions
				the second of th
	Comment of the second		2.	Genetic algorithm based independent component analysis to separate noise from Electroca
	a i a i i c'hor eza detamente. Circipi da gari a apri 25 paz			Palaniappan, R.; Gupta, C.N.; Engineering of Intelligent Systems, 2006 IEEE International Conference on
				22-23 April 2006 Page(s):1 - 5
				AbstractPlus Full Text: PDF(1456 KB) IEEE CNF
.1 *	response			Rights and Permissions
	•	_	3	Independent component analysis using time delayed sampling
		<u> </u>	٠.	Yoshioka, M.; Omatu, S.;
				Neural Networks, 2000, IJCNN 2000, Proceedings of the IEEE-INNS-ENNS International Joint Cor
				Volume 4, 24-27 July 2000 Page(s):75 - 78 vol.4
	of a see the dealers to	•		AbstractPlus Full Text: PDF(212 KB) IEEE CNF
	ំ ខេត្តក្នុងន ាច ់			Rights and Permissions
	e en en en distric			
			4.	Identification of probabilistic cellular automata <u>and the last of the last of</u>
•				Systems. Man and Cybernetics. Part B. IEEE Transactions on
				Volume 33, Issue 2, April 2003 Page(s):225 - 236 Digital Object Identifier 10.1109/TSMCB.2003.810437
				AbstractPlus References Full Text: PDF(882 KB) IEEE JNL
		•		Rights and Permissions
	, :			
			5.	Signal separation method using ICA
				Yoshioka, M.; Omatu, S.; Systems. Man. and Cybernetics. 1999. IEEE SMC '99 Conference Proceedings. 1999 IEEE Internetics.
	•			Volume 1, 12-15 Oct. 1999 Page(s):549 - 552 vol.1
				Digital Object Identifier 10.1109/ICSMC.1999.814151
				AbstractPlus Full Text: PDF(244 KB) IEEE CNF Rights and Permissions
				n inn an a collaige a constant
	1 '			A CONTRACT OF STATE AND A STATE OF STATE AND A STATE OF S

Non-stationary independent component analysis

arrea ing inchines ulli-

Artificial Neural Networks, 1999. ICANN 99. Ninth International Conference on (Conf. Pub), No. 47(
Volume 1, 7-10 Sept. 1999 Page(s):503 - 508 vol.1

AbstractPlus | Full Text: PDF(380 KB) IET CNF

Help Contact Us Privac

Copyright 2006 IE

Indexed by

USPTO -

Search:

The ACM Digital Library
The Guide

("component analysis" or pca) and ("genetic" or evolve or evol

Feedback Report a problem Satisfaction survey

Terms used component analysis or pca and genetic or evolve or evolutionary and noise

Found 25,609 of 197,895

Sort results

Display

results

relevance

expanded form

Save results to a Binder Search Tips Open results in a new

Try an Advanced Search Try this search in The ACM Guide

es de Ave or exolucionary) in Parie

Results 1 - 20 of 200

Result page: 1 2 3 4 5 6 7 8 9 10

Relevance scale

Best 200 shown

1 Real-world applications: papers: Evolutionary optimization of ZIP60: a controlled

SEARCH

explosion in hyperspace

Dave Cliff

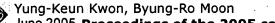
July 2006 Proceedings of the 8th annual conference on Genetic and evolutionary computation GECCO '06

Publisher: ACM Press Full text available: pdf(346.20 KB) Additional Information: full citation, abstract, references, index terms

The "ZIP" adaptive trading algorithm has been demonstrated to outperform human traders in experimental studies of continuous double auction (CDA) markets. The original ZIP: algorithm requires the values of eight control parameters to be set correctly. A new extension of the ZIP algorithm, called ZIP60, requires the values of 60 parameters to be set correctly. ZIP60 is shown here to produce significantly better results than the original ZIP (called "ZIP8" hereafter). A genetic algorithm (GA) is us ...

Keywords: ZIP8 ZIP60, Zero-Intelligence-Plus (ZIP) Traders; algorithmic trading, auction markets, automated market-mechanism design

Real world applications: Nonlinear feature extraction using a neuro genetic hybrid



June 2005 Proceedings of the 2005 conference on Genetic and evolutionary. computation GECCO '05

Publisher: ACM Press

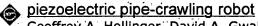
Full text available: pdf(361.05 KB)

Additional Information: full citation, abstract, references, citings, index

Feature extraction is a process that extracts salient features from observed variables. It is considered a promising alternative to overcome the problems of weight and structure optimization in artificial neural networks. There were many nonlinear feature extraction methods using neural networks but they still have the same difficulties arisen from the fixed network topology: In this paper, we propose a novel combination of genetic... algorithm and feedforward neural networks for nonlinear feature And The Land Land 1999

HO WHAT THE WALL IN Keywords: feature extraction, function approximation, neuro-genetic hybrid stars to be

3 Evolvable hardware: papers: Evolutionary design of fault-tolerant analog control for a



in come your ROOMS shows -The training of the control of the control of the

Geoffrey A. Hollinger, David A. Gwaltney

July 2006 Proceedings of the 8th annual conference on Genetic and evolutionary

A more of the death Extinguishing in the color of the and the state and contractions in A Results (page 1): ("component analysis" or pca) and ("genetic" or evolve or evolutionary) ... Page 2 of 6

computation GECCO '06

Publisher: ACM Press

Full text available: 🔁 pdf(418.13 KB) Additional Information: full citation, abstract, references, index terms

In this paper, a genetic algorithm (GA) is used to design fault-tolerant analog controllers for a piezoelectric micro-robot. First-order and second-order functions are developed to model the robot's piezoelectric actuators, and the GA is used to evolve closed-loop controllers for both models. The GA is first used to assist in traditional PID design and is later used to synthesize variable topology analog controllers. Through the use of a compact circuit representation, runtimes are minimized and ...

Keywords: evolvable hardware, genetic algorithms, inspection robots, piezoelectric actuators, robot control

Genetic programming: Open-ended robust design of analog filters using genetic. programming

Jianjun Hu, Xiwei Zhong, Erik D. Goodman

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

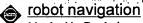
Publisher: ACM Press

Full text available: pdf(653.64 KB)... Additional Information: full citation, abstract; references, index terms

Most existing research on robust design using evolutionary algorithms (EA) follows the paradigm of traditional robust design, in which parameters of a design solution are tuned to improve the robustness of the system. However, the topological structure of a system may set a limit on the possible robustness achievable through parameter tuning. This paper proposes a new robust design paradigm that exploits the open-ended topological synthesis capability of genetic programming to evolve more robust ... 🔠 🚟 🚟 orders in two at spiezzerit and all The second avoid the ad-loop

Keywords: analog filter synthesis, automated design, bond graphs, genetic programming, robustidesign (yithpalize volume and a second of second

Poster session: FPGA-based design of an evolutionary controller for collision-free



M. A. H. B. Azhar, K. R. Dimond

ture of regit rephysionts of

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international, symposium on Field programmable gate arrays FPGA '03'

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

The employment of field programmable gate arrays (FPGAs) to a robot controller is very attractive, since it allows for fast IC prototyping and low cost modifications. The speedup is achieved because of pipelining and dedicated functions in hardware that are customized to the problem. The self learning ability and the adaptive nature of an Artificial Neural Network (ANN) makes it a good candidate for the control structure of a robot's navigation. An evolutionary approach in designing robots can e ... The high law participation and see

Poster session: A single-FPGA implementation of image connected component



labelling is the whitehing the K. Benkrid, S. Sukhsawas, D. Crookes, S. Belkacemi

oj kigosimi, tiki

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international out of the 2003 symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

This paper describes an architecture based on a serial iterative algorithm for Image Connected Component Labelling with a hardware complexity O(N) for an NxN image. The algorithm iteratively scans the input image, performing a recursive non-zero maximum neighbourhood operation. A complete forward pass is followed by an inverse pass in which the image is scanned in reverse order. The process is repeated until no change in the image occurs. The algorithm has been coded in Handel C language and tar ...

Contributed articles: Genetic subtyping using cluster analysis

Tom Burr, James R. Gattiker, Greggory S. LaBerge

July 2001 ACM SIGKDD Explorations Newsletter, Volume 3 Issue 1

Publisher: ACM Press

Full text available: 🔂 pdf(984.40 KB) Additional Information: full citation, abstract, references

In this paper we (1) describe state-of-the-art methods to identify clusters in DNA sequence data for taxonomic analysis; (2) describe a new method with better scaling properties based on model-based clustering, and (3) present examples using the nucleoprotein and hemagglutin regions of influenza and the env and gag regions of human immunodeficiency virus (HIV).

Keywords: DNA sequence analysis, HIV, influenza, model-based clustering, phylogenetic trees

Genetic algorithms: On favoring positive correlations between form and quality of candidate solutions via the emergence of genomic self-similarity

Ivan Garibay, Annie S. Wu, Ozlem Garibay

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary and computation GECCO '05

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(240,49 KB) terms t Burt Danië W. Gartikii: D.,

A key property for the effectiveness of stochastic search techniques, including evolutionary algorithms, is the existence of a positive correlation between the form and the quality of candidate solutions. In this paper, we show that when the ordering of genomic symbols in a genetic algorithm is completely independent of the fitness function and therefore free to evolve along the candidate solutions it encodes, the resulting genomes self-organize into self-similar structures that favor this key s ...

projection had distributed the e-Keywords: emergence, genetic algorithm, genomic self-similarity, proportional genetic. algorithm, representation, self-organization

Learning Classifier systems and other genetics-based machine learning: papers:

Prediction update algorithms for XCSF: RLS, Kalman filter, and gain adaptation Pier Luca Lanzi, Daniele Loiacono, Stewart W. Wilson, David E. Goldberg July 2006 Proceedings of the 8th annual conference on Genetic and evolutionary computation GECCO '06

Publisher: ACM Press 7, Willy 1 1999

The proceed to CNA Bequent

Full text available: pdf(189:57 KB) Additional Information: full citation, abstract, references, index terms

We study how different prediction update algorithms influence the performance of XCSF. We consider three classical parameter estimation algorithms (NLMS, RLS, and Kalman filter) and four gain adaptation algorithms (K1, K2, IDBD, and IDD). The latter have been shown to perform comparably to the best algorithms (RLS and Kalman), but they have a lower complexity. We apply these algorithms to update classifier prediction in XCSF and compare the performances of the seven versions of XCSF on a set of ...

it is the second of the second

หลายภู อูซสอา **ซร**ิสเสริ สตุลเสร**ิ** โดย

Keywords: Kalman filter, LCS, XCS, prediction update and authorized and a territorie of the control of the cont in End it not be candided. In

10 Crowd and group animation

Ceres I di 2 % COS CHAIR.

reals in the real detailers that you

Daniel Thalmann, Christophe Hery, Seth Lippman, Hiromi Ono, Stephen Regelous, Douglas Sutton

Results (page 1): ("component analysis" or pca) and ("genetic" or evolve or evolutionary) ... Page 4 of 6

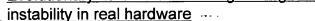
August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(20.19 MB) Additional Information: full citation, abstract

A continuous challenge for special effects in movies is the production of realistic virtual crowds, in terms of rendering and behavior. This course will present state-of-the-art techniques and methods. The course will explain in details the different approaches to create virtual crowds: particle systems with flocking techniques using attraction and repulsion forces, copy and pasting techniques, agent-based methods. The architecture of software tools will be presented including the MASSIVE softwa ...

11 Evolutionary hardware: Evolving analog controllers for correcting thermoacoustic



POTENT HOUSE PARTIES TO A STATE OF THE PARTY OF THE PART

Saranyan A. Vigraham, John C. Gallagher, Sanjay K. Boddhu

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

Full text available: pdf(566.93 KB) Additional Information: full citation, abstract, references, index terms

Previous research demonstrated that Evolvable Hardware (EH) techniques can be employed to suppress Thermoacoustic (TA) instability in a computer simulated combustion chamber. Though that work established basic feasibility, there were still significant questions concerning whether those techniques would function in the real world. This paper presents the results of the next incremental step between controlling in pure simulation and controlling a real combustion chamber. In it, we will examine is ...

and a market

and the second of the second o

in the set approaches to

norm a triercustime art c

Keywords: evolvable hardware

of the second second

12 On genetic algorithms

Eric B. Baum, Dan Boneh, Charles Garrett

July 1995 Proceedings of the eighth annual conference on Computational learning theory COLT '95

Publisher: ACM Press

Full text available: pdf(1.13 MB) Additional Information: full citation, references, citings, index terms

13 Poster session: A*SC-based novel configurable analog cell

Binlin Guo, Jiarong Tong

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract still argenticant

This paper presents a high performance Configurable Analog Cell (CAC) which is made up of a Basic Configurable Analog Cell (BCAC) and a digital converter block. The CAC can be used either for Field Programmable Analog Array (FPAA) or for Field Programmable Digital-Analog Mixed Array (FPMA). The BCAC include three innovative Programmable Switch Blocks (PSBs), three Programmable Capacitor Arrays (PCAs), and an amplifier. PSB and PCA can be programmed to generate many equivalent components. In addi ...

14 Poster session: Testing for bit error rate in FPGA communication interfaces

Yongquan Fan, Zeljko Zilic

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international importance is a symposium on Field programmable gate arrays FPGA '03

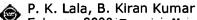
Publisher: ACM Press: 100

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

FPGAs have witnessed an increased use of dedicated communication interfaces. With their increased use, it is becoming critical to test and properly characterize all such interfaces.

Bit error rate (BER) characteristic is one of the basic measures of the performance of any digital communication system. We propose a scheme for BER testing in FPGAs, which exhibits a few orders of magnitude speedup compared to traditional software simulation methods. In this scheme, we include a novel implementation ...

15 Poster session: An FPGA architecture with built-in error correction capability



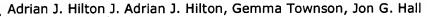
February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: Topdf(187.05 KB) Additional Information: full citation, abstract

The use of very deep submicron technology makes VLSI-based digital systems more susceptible to transient or soft errors, and thus compromises their reliability. This paper proposes an FPGA architecture inspired by the human immune system that allows tolerance of transient errors. The architecture is composed of a two-dimensional array of identical functional cells with different genetic codes. These codes are chosen based on the required functions to be performed by the functional cells. An erro ...

Poster session: FPGAs in critical hardware/software systems



February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

FPGAs are being used in increasingly complex roles in critical systems, interacting with conventional critical software. Established safety standards require rigorous justification of safety and correctness of the conventional software in such systems. Newer standards now make similar requirements for safety-related electronic hardware, such as FPGAs, in these systems. In this paper we examine the current state-of-the-art in programming FPGAs, and their use in conventional (low-criticality) hard

michien to de engin 17 Poster session: Design framework for the implementation of the 2-D orthogonal

discrete wavelet transform on FPGA

A. Benkrid, D. Crookes, K. Benkrid

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press and a

Full text available: pdf(187.05 KB). Additional Information: full citation, abstract, citings

This paper gives a design framework for the implementation of the 2-D Orthogonal Discrete Wavelet Transform (DWT) on FPGA. The architecture is based on the Pyramid Algorithm Analysis. Our architecture spatially maps the multistage filter banks of the DWT onto the Xilinx Virtex-E FPGA family. In this paper we propose a novel FIR structure to handle the computation along the borders using symmetric extension. The paper includes a new detailed mathematical approach to determine the architecture's d ...

18 Poster session: Lattice adaptive filter implementation for FPGA

Zdenek Pohl, Rudolf Matoušek, Jirí Kadlec, Milan Tichý, Miroslav Lícko

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

Our poster introduces an innovative RLS Lattice filter implementation for FPGAs. The signal processing applications typically require wide numeric range, and that poses a problem when using an FPGA implementation. Our approach is based on arithmetic using logarithmic numeric representation (LNS). The test application - an adaptive noise canceller - has been optimized for the Xilinx Virtex devices. It consumes roughly 70% of all logic resources of the XCV800 device and all block memory cells. The ...

Poster session: A high-speed successive erasure BCH decoder architecture

Thomas Buerner

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187,05 KB) Additional Information: full citation, abstract

A new high speed architecture for a BCH successive erasure decoder is presented. The Berlekamp-Massey based decoder by Sarwate and Shanbhag is extended to handle successive erasures. The critical path in the calculation submodules is increased from Tadd+Tmult to Tadd+Tmult+Tmux. The proposed architecture is implemented exemplary for a BCH(63,45,7) code with up to two erasures on a XILINX Spartan2E300-7. Thus a clock frequency.of:95 MHz is reached using 47% of the available slices instead of 105 ...

20 Poster session: A physical retiming algorithm for field programmable gate arrays



(abstract only)

Peter Suaris, Dongsheng Wang, Pei-Ning Guo, Nan-Chi Chou February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

that the let in print the print of

e it me Dengsheig via gri

a mad activity has prospertity to the

as field in 可有 to Fabile 被称为 a com-

in a sa tanachig Walays is . end pilograms karot militati pilograms ល្ងាយវុធស៊ី ក្រុក ខ**្លាំ លុមប៉ុស្មិ៍ថ្មីក្រុម**ព្រះប្រាស់

ore of the first and a substitute of

अर्थानेप्र'वर्गात विकास स्थानेत्री है। स्थान के किस के re reposition en

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

In this paper, we present a physical retiming algorithm for sequential circuits implemented in field programmable gate arrays (FPGAs). This algorithm can speed up the sequential circuits by reducing delay of all critical paths with negative slacks. By taking advantage of the physical information provided by placed circuits, this algorithm integrates two operations: retiming and register duplication. Retiming moves registers across combinational components. Register duplication moves registers ac ...

Libration - Micself tilled occur-... wit asked to handle The ACM Portal is published by the Association for Computing Machinery. Copyright © 2007 ACM, Inc. Terms of Usage Privacy Policy Code of Ethics Contact Us

for a title COLIF Proceed in This TOTAL TOS AFFORZET OF Z. Head Useful downloads: Adobe Acrobat Q QuickTime Windows Media Player Real Player

m peri de contra liminéra a s

o var nobadium me magna misi

very. Copy. ght - 1800 r ADM, his

with a first for weeding of the

10-220 MHz, has prevented their use in high-speed digital applications. With the advent of IBM:Silicon Germanium (SiGe) 7HP technology, designers have been able to design FPGAs

Carolin albina a Millia Mar

operating in the gigahertz range. This paper is going to elaborate on the implementation of a 4-bit ripple-carry full adder (FA) on the new SiGe FPGA with new architectures and a novel power management strategy. The 1-bit FA can be reali ...

24 Poster session: A high resolution diagnosis technique for open and short defects in





FPGA interconnects

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03 🦈

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

A two-step diagnosis flow, coarse-grain and fine-grain, is presented in order to identify a faulty element in the FPGA interconnects. The fault models used for interconnect are open, resistive-open, and bridging fault. The coarse-grain phase identifies the faulty net, the routing between two consecutive sequential elements in the FPGA. This phase is performed by just post-processing tester results for the test configurations used for interconnect testing. During the fine-grain step, the faulty n ...

Poster session: Application-dependent testing of FPGAs for bridging faults Mehdi Baradaran Tahoori



February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03 members from

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

A new technique is presented for testing for bridging faults in the interconnects of an arbitrary design implemented in an FPGA. The configuration of the routing resources used in the original design remains unchanged in the test configurations. Only the logic blocks used in the design are reprogrammed in order to implement single-term functions, logic functions with only jone minterm or one maxterm. As shown by formal proofs, all activated faults are detected when single-term functions and appro...

Higher A Louressin 26 Poster session: Design strategies and modified descriptions to optimize cipher FPGA





implementations: fast and compact results for DES and triple-DES Gaël Rouvroy, Francois-Xavier Standaert, Jean-Jacques Quisquater, Jean-Didier Legat February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03's is

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract, citings

We propose a new mathematical DES description that allows optimized implementations. It also provides the best DES and triple-DES FPGA implementations known in term of ratio throughput/area, where area means the number of FPGA slices used. First, we get a less resource consuming unrolled DES implementation that works at data rates of 21.3 Gbps (333 MHz), using VIRTEX II technology. In this design, the plaintext, the key and the mode (encryption/decrytion) can be changed on a cycle-by-cycle basis ...

27 Poster session: Wireless sensor networks: a power-scalable motion estimation IP for hybrid video coding





Federico Quaglio, Maurzio Martina, Fabrizio Vacca, Guido Masera, Andrea Molino, Gianluca Piccinini, Maurizio Zamboni er eran eractions, logic

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Cold Locato Jack (17 mm 4 / 7.31)

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

Wireless Sensor Networks are an emerging phenomenon in the research community. The design and development of network architectures and nodes implementation are fostering many research activities. Due to their wide application fields and pervasive employment possibilities, the investigation of novel classes of wireless sensor nodes is of great concern. Results (page 2): ("component analysis" or pca) and ("genetic" or evolve or evolutionary) ... Page 3 of 6

In this paper we presented a novel Power-Scalable Motion Estimation IP suitable for videosurveillance over Wireless Sensor Networks. The proposed ...

28 Poster session: Synthetic circuit generation using clustering and iteration

Paul D. Kundarewich, Jonathan Rose

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

The development of next-generation CAD tools and FPGA architectures requires benchmark circuits to experiment with new algorithms and architectures. There has always been a shortage of good public benchmarks for these purposes, and even companies that have access to proprietary customer designs could benefit from designs that meet size and other particular specifications. In this paper, we present a new method of generating realistic synthetic benchmark circuits to help alleviate this shortage. ...

Poster session: Reconfigurable randomized K-way graph partitioning

Fatih Kocan

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03 t you lift of brobidioustry) iii i Pape 3 o.

Publisher: ACM Press (CAUSH) S

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract per scritcible for Video-

In this paper, a randomized k-way graph partitioning algorithm is mapped onto reconfigurable hardware. The randomized algorithm relies on repetitive running of the same algorithm with different random number sequences to achieve the (near-)optimal solution. The run-time and hardware requirements of this reconfigurable solution per a random number sequence are O(|V|-K) cycles and O(|V|log|V|+|E|) gates and flip-flops, respectively. Performance is improved further at the expense of more hardware b ...

30 Poster session: An automated and power-aware framework for utilization of IP cores

Alex Jones, Prith Banerjee

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

Use of hand optimized Intellectual Property (IP) logic cores is prolific in hardware design. While IP cores remain a standard way to utilize the improvement in FPGA technology and contend with time to market pressure through reuse, popularity of tools generating hardware descriptions from high-level languages is also increasing in popularity. PACT HDL combines these two methods within a power-aware framework. The PACT HDL compiler generates power optimized VHDL/Verilog from a C language descript ...

ne califiva i una librar ci li.

Poster session: Power-aware architectures and circuits for FPGA-based signal

processing

Frank Honoré, Ben Calhoun, Anantha Chandrakasan

Checkens of the series of the series of

相接的一個大門內情報院門子的工作中的

on 1 1975 the Theoree) optimize February 2003, Proceedings of the 2003 ACM/SIGDA eleventh international Carrier of our Bore from symposium on Field programmable gate arrays FPGA 103 and Gip Hops,

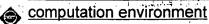
Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

This work showcases a power-aware system design methodology for DSP applications on reconfigurable hardware platforms. In particular, an enhanced FPGA architecture is proposed and analyzed for a deep submicron process technology. These enhancements reduce Configurable Logic Block (CLB) usage for distributed arithmetic implementations of signal processing applications by 50% or more thereby reducing the load on interconnect resources. Multi-Threshold CMOS (MTCMOS) circuit design techniques are ag ...

Results (page 2): ("component analysis" or pca) and ("genetic" or evolve or evolutionary) ... Page 4 of 6

32 Poster session: On computation and resource management in an FPGA-based



Soheil Ghiasi, Karlene Nguyen, Elaheh Bozorgzadeh, Majid Sarrafzadeh
February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international
symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press, and the

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract, citings

The idea of managing the comprising computations of an application executed in an FPGA-based system is presented. An efficient algorithm for exploiting the timing slack of building blocks of the application is proposed. The slack of these blocks can be utilized by replacing them with slower but "cheaper" modules and by assigning the computations to the proper resources. Thus, our approach manages the comprising computations and system resources at the same time. This is performed without comprom ...

33 Poster session: On hiding latency in reconfigurable systems: the case of merge-sort





for an FPGA-based'system

Hossam ElGindy, George Ferizis
February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

Recursive solutions are effective software techniques that are difficult to map into hardware due to their dependency on input size and data values. As a result, most high-level design tools do not allow for recursive calls. In this paper we present a technique for mapping the merge sort algorithm, as a case study, into a reconfigurable system. Our mapping employs an on-line prediction method to reconfigure the necessary hardware only when the need arises, and to hide the reconfiguration delay. ...

34 Poster session: Using FPGAs for data and reorganization engines: preliminary



results for spatial pointer-based data structures
Pedro C. Diniz, Joonseok Park

February 2003, Proceedings of the 2003 ACM/SIGDA eleventh international, the proper symposium on Field programmable gate arrays FPGA 103 system.

Publisher: ACM Pressing etting

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

FPGAs have appealing features such as customizable internal and external bandwidth and the ability to exploit vast amounts of fine-grain instruction-level parallelism. In this paper we explore the applicability of these features in using FPGAs as data search and reorganization engines for performing search and reorganization computations over spatial pointer-based data structures for which traditional computing platforms perform poorly. The preliminary experiments, for a set of simple spatial qu ...

35 Poster session: Recursive circuit clustering for minimum delay and area



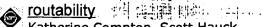
February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

We present an effective recursive algorithm for circuit clustering for delay and area minimization, which is applicable to FPGAs. At the highest level of clustering, the circuit is clustered using a modified single-level clustering algorithm. A cluster to netlist transformation technique is proposed, which converts each cluster into a new subcircuit. The algorithm then continues recursively by clustering the generated subcircuits into further levels of clusters. To reduce the amount of node dupl ...





Katherine Compton, Scott Hauck

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press ...

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

The design of a routing channel for an FPGA is a complex process, requiring the careful balance of flexibility with silicon efficiency. With the growing move towards embedding FPGAs into SoC designs, and the opportunity to automatically generate FPGA. architectures, this problem becomes even more critical. The design of a routing channel requires determining the number of routing tracks, the length of the wires in those tracks, and the positioning of the breaks on the tracks. This paper focuses o ...

37 Poster session: Implementation of digital fixed-point approximations to continuous-



J. E. Carletta, R. J. Veillette, F. W. Krach, Z. Fang

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

An analytical framework for the implementation of digital infinite impulse response filters in fixed-point hardware on FPGAs is presented. It presumes that a continuous-time filter with the desired response is given. Within the framework, the constant coefficient bit widths are determined by accounting for the sensitivity of the filter's pole and zero locations with respect to the coefficient perturbations. The internal signal bit widths are determined by calculating theoretical bounds on the ra ...

Treats will be till sike in the course of 38 Poster session: Customized regular channel design in FPGAs



Elaheh Bozorgzadeh, Majid Sarrafzadeh

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: 园 pdf(187.05 KB) Additional Information: full citation, abstract

In this paper, we study the problem of customized regular segmentation design in FPGA routing channels. We propose a deterministic algorithm for segmentation design problem in which each interval is assigned to only one segment (1-Segmentation). We solve the problem of maximum number of incremental track assignment of intervals by mincost network flow technique for 1-Segmentation design. The general K-Segmentation design problem can also be solved by some modifications in our algorithm. We have ...

ern of the whola in C

Alchert " Lai test 39 Poster session: Design of a fingerprint system using a hardware/software



Lee Vanderlei Bonato, Rolf Fredi Molz, João Carlos Furtado, Marcos Flores Ferrão, Fernando officed tried cities a

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

Processing system of fingerprint are CPU time intensive, being normally implemented in software. This paper present a new algorithm for fingerprint features localization, that can be easily implemented in hardware (system-on-a-chip, FPGA) "This algorithm is composed by 3 stages, first stage read a fingerprint image (255x255pixels, ash tones) and apply a Gaussian Filter, after this, apply a absolute difference mask (ADM) for detector the edges in the image filtered and the last stage look for fin ...

Stephan Bingemer, Peter Zipf, Manfred Glesner

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

Field-programmable logic has become an increasingly important technology for the design of digital circuits. One interesting point in the field of reconfigurable logic is its classification within the implementation space of other technologies. Such a classification gains importance if FPGA technology becomes an integral part of Systems-on-a-Chip (SoC). The poster discusses an approach to classify technologies based on their granularity. Therefore, a new distinction into homogeneous and heteroge ...

Results 21 - 40 of 200

Result page: <u>previous</u> 1 2 3 4 5 6 7 8 9 10

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2007 ACM, Inc. Terms of Usage Privacy Policy Code of Ethics Contact Us

Useful downloads: Adobe Acrobat QuickTime Windows Media Player

Jugo 1): Podupalnehisiri jere

war of exer, Poter Zije is or all y b Mor Problement and the

ny appailule e l'ill

medal jarah ta kamala majir kati k

or dig sold in the sec Caret bear than the

la islácar á trantitió ting remindia e e edition up elance filitipal to the

(U.C). The president discusses, \$ 100 ្ទាក់នៅលេខ ១៥ សេមីស្រីសូវ និង

of the ACV Point is flit ished ... it

Gert Lat on a visi 🛅 नेब्ह्यू

A LOTE FOR A SEC. NO.

2: - 10 (f 2/b) - 1 - 1 - 1

The regarder of the stage of the stage

ei 7- -- fi Theim Buair i

we are thus talogically his

will a first of System scon-a-Chip gallouisel in Clair

morning of arth theeler oaks of the West with the

- The Mie! Su ha classification

ίχι θυργεμά συσσυζ Αθνείπο.

and born voluntomary) all alage contra

Result page: <u>previous</u> <u>1</u> <u>2</u> **3** <u>4</u> <u>5</u> <u>6</u> <u>7</u> <u>8</u> <u>9</u>

Save results to a Binder

Open results in a new

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays FPGA '03

This paper presents a novel approach to hardware abstraction based on the logic programming language Prolog. This is an attempt to satisfy the dual requirement of

VHDL or Verilog. HIDE enables highly scaleable and parameterised compos ...

42 Poster session: Making area-performance tradeoffs at the high level using the

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

hardware/software implementation. The majority of DSP alg ...

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

abstract hardware; design and hardware efficiency. Central to this approach is a hardware description environment called HIDE, which provides more abstract hardware descriptions and compositions than are possible in traditional hardware description languages such as

P. Banerjee, V. Saxena, J. Uribe, M. Haldar, A. Nayak, V. Kim, D. Bagchi, S. Pal, N. Tripathi,

symposium on Field programmable gate arrays FPGA '03

Applications such as digital cell phones, 3G wireless receivers, and voice over IP, require DSP functions that are typically mapped onto general purpose DSP processors. With the introduction of advanced FPGA architectures which provide built-in DSP support such as the Xilinx Virtex-II, and the Altera Stratix, a new hardware alternative is available for DSP designers. DSP design has traditionally been divided into algorithm development and

43 Poster session: FPGA implementation of a fast Hadamard transformer for WCDMA

symposium on Field programmable gate arrays FPGA '03

In code division multiple access (CDMA) systems the base station identifies each user in a

transmitter using a Walsh-Hadamard function. A Fast Hadamard Transformer (FHT) is used at the receiver to decode the transmitted codes. The purpose of this study is to design a FHT which utilizes less hardware resources as compared to the existing designs and also http://portal.acm.org/results/cfm?query=%28%22component%20analysis%22%20or%20p... 2/20/2007

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international

cell by unique orthogonal (Walsh) codes. The Walsh codes are generated at the

Search Tips

window

41 Poster session: A logic based approach to hardware abstraction

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

genetic or evolve or evolutionary and noise

expanded form

K. Benkrid, S. Belkacemi, D. Crookes

Publisher: ACM Press

Sport of the social policy of the

AccelFPGA compiler for FPGAs

Sanat Kamal Bahl, Jim Plusquellic

Publisher: ACM Press

R. Anderson 🔻 🕯 🗆 🗆

Publisher: ACM Press

relevance

Results 41 - 60 of 200

Sort results

Best 200 shown

Display

results

Found **25,609** of **197,895**

Relevance scale

Try an Advanced Search

THE CHI TON ...

Try this search in The ACM Guide

Results (page 3): ("component analysis" or pca) and ("genetic" or evolve or evolutionary) ... Page 2 of 6 suggest means for reducing the input length of the Walsh sequence. ...

44 Discovering Gene Networks with a Neural-Genetic Hybrid

Edward Keedwell, Ajit Narayanan

July 2005 IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB), Volume 2 Issue 3

Publisher: IEEE Computer Society Press

Full text available: pdf(1:59 MB) Additional Information: full citation, abstract, references; index terms

Recent advances in biology (namely, DNA arrays) allow an unprecedented view of the biochemical mechanisms contained within a cell. However, this technology raises new challenges for computer scientists and biologists alike, as the data created by these arrays is often highly complex. One of the challenges is the elucidation of the regulatory connections and interactions between genes, proteins and other gene products. In this paper, a novel method is described for determining gene interactions i ...

Keywords: Index Terms- Gene expression analysis, neural networks, genetic algorithms, reverse-engineering, gene interactions.

45 A survey on wavelet applications in data mining

Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogihara

December 2002 ACM SIGKDD Explorations Newsletter, Volume 4 Issue 2

Publisher: ACM Press

Full text available: pdf(330.06 KB) Additional Information: full citation, abstract, references, citings

Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this is paper to fill the void. First, the paper presents a high-level data-mining framework that reduces the overall process into smaller components. Then applications of wavelets for each component are reviewd. The paper concludes by discussing the impact of wavelets on data mining research an ...

ou combingy, itses have not in ordinal to the become

Face recognition: A literature survey

W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 ACM Computing Surveys (CSUR), Volume 35 Issue 4 products. In this

Publisher: ACM Press had we

Full text available: pdf(4.28 MB)

Additional Information: full citation, abstract, references, citings, index terms and a second references.

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

47 Genetic algorithms: Combating user fatigue in iGAs: partial ordering, support vector

machines, and synthetic fitness

restration of the condition of the

Xavier Llorà, Kumara Şastry, David E. Goldberg, Abhimanyu Gupta, Lalitha Lakshmi June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

Full text available: pdf(342.37 KB)

Additional Information: full citation, abstract, references, citings, index terms

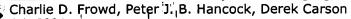
One of the daunting challenges of interactive genetic algorithms (iGAs)---genetic algorithms in which fitness measure of a solution is provided by a human rather than by a

Results (page 3): ("component analysis" or pca) and ("genetic" or evolve or evolutionary) ... Page 3 of 6

fitness function, model, or computation---is user fatigue which leads to sub-optimal solutions. This paper proposes a method to combat user fatigue by augmenting user evaluations with a synthetic fitness function. The proposed method combines partial ordering concepts, notion of non-domination from multiobjective optimization, ...

Keywords: human evaluation, interactive evolutionary computation, support vector machines, synthetic fitness

48 EvoFIT: A holistic, evolutionary facial imaging technique for creating composites



July 2004 ACM Transactions on Applied Perception (TAP), Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(2.00 MB) Additional Information: full citation, abstract, references, index terms

EvoFIT, a computerized facial composite system is being developed as an alternative to current systems. EvoFIT faces are initially presented to a witness with random characteristics, but through a process of selection and breeding, a composite is "evolved." Comparing composites constructed with E-FIT, a current system, a naming rate of 10% was found for EvoFIT and 17% for E-FIT. Analysis revealed that target age was limiting factor for EvoFIT and a second study with age-appropriate ... эзу, б): 'си привсійаны зал

olivo li gyuli,dalahy) ... Page 3

till or till optimal 🕾 😘 ÞV smámlentinig tiser 🦈

i iz tritil wor da Wa give çı stirveyi ci

e - Ye will be the unistics in

Keywords: Design, experimentation, human factors त्रतीका पर्वाची मुक्केनिक हर्मा करना इ.स.च्या १५ वर्षे

Metaheuristics in combinatorial optimization: Overview and conceptual comparison

Christian Blum, Andrea Roli

September 2003, ACM Computing Surveys (CSUR), Volume 35 Issue 3 cm, Stip port vector

Publisher: ACM Presso htmss:

Full text available: pdf(431.84 KB)

Additional Information: full citation, abstract, references, citings, index

The field of metaheuristics for the application to combinatorial optimization problems is a rapidly growing field of research. This is due to the importance of combinatorial optimization problems for the scientific as well as the industrial world. We give a survey of the nowadays most important metaheuristics from a conceptual point of view. We outline the different components and concepts that are used in the different metaheuristics in order to analyze their similarities and differences. Two v ...

Evofil, a computerized ia a co-. Pvelopeu Baran alternátive to **Keywords:** Metaheuristics, combinatorial optimization, diversification.; intensification one was need built tarolly consisin the megangan rasid is "evolved."

Lompia ha admigositas como a 50 Real world applications. Evolving computer intrusion scripts for vulnerability at target

assessment and log analysis

ព្យាប់ទេស ក្បានកម្មាននៅស្មារស៊ីម៉ែត

le nomi dys mast mpom

Julien Budynek, Eric Bonabeau, Ben Shargel

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

51

Additional Information: full citation, abstract, references; citings, index Full text available: pdf(456.56 KB) terms

Series 2 DUTACESCORENT IN Evolutionary computation is used to construct undetectable computer attack scripts. Using a simulated operating system, we show that scripts can be evolved to cover their tracks and become difficult to detect from log file analysis.

Keywords: agent-based model, hacker, log analysis, script kiddies, vulnerability.... assessment if a field off it. and of a modular off.

e de la variable L'Etropher de Genetic algorithms: papers: Credit assignment in adaptive evolutionary algorithms



James M. Whitacre, Tuan Q. Pham, Ruhul A. Sarker

July 2006 Proceedings of the 8th annual conference on Genetic and evolutionary computation GECCO '06

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(312.46 KB)

In this paper, a new method for assigning credit to search operators is presented. Starting with the principle of optimizing search bias, search operators are selected based on an ability to create solutions that are historically linked to future generations. Using a novel framework for defining performance measurements, distributing credit for performance, and the statistical interpretation of this credit, a new adaptive method is developed and shown to outperform a variety of adaptive and non- ...

Keywords: adaptation, evolutionary algorithm, genetic algorithm, historical credit assignment, search bias

Data stream processing: Adaptive non-linear clustering in data streams

Ankur Jain, Zhihua Zhang, Edward Y. Chang

November 2006 Proceedings of the 15th ACM international conference on Information and knowledge management CIKM '06

Publisher: ACM Press

Full text available: pdf(813.29 KB) Additional Information: full citation, abstract, references, index terms

Data stream clustering has emerged as a challenging and interesting problem over the past few years. Due to the evolving nature, and one-pass restriction imposed by the data stream model, traditional clustering algorithms are inapplicable for stream clustering. This problem becomes even more challenging when the data is high-dimensional and the clusters are not linearly separable in the input space. In this paper, we propose a nonlinear stream clustering algorithm that adapts to the stream's evoc sented. Starting to but the cale of maker a

Keywords: data streams, dimension reduction, kernel methods, stream clustering,: stream mining the makes are all the Committee of the participation of malities of profit, categories belief on a much oid is developed and

a and to only adominate attract 53 Learning classifier systems and other genetics-based machine learning: Kernelbased, ellipsoidal conditions in the real-valued XCS classifier system Martin V. Butz

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press :: 1945

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.66 MB) terms

Many learning classifier system (LCS) implementations are restricted to the binary problem realm. Recently, the XCS classifier system was enhanced to be able to handle real-valued inputs among others. In the real-valued enhancement, XCSF applies as a function approximation system that partitions the input space in hyperrectangular, are subspaces specified in the classifiers. This paper changes the classifier conditions to data hyperspheres and hyperellipsoids and investigates the consequent performance im ... the later to be a parket in the

Keywords: GAs, XCS, function approximation, learning classifier systems, piece-wise linear approximation, radial bases

54 Evolutionary computation and optimization (ECO): An artificial immune system

approach to document clustering Na Tang, V. Rao Vemuri

s you a bin catalistnesing in now

March 2005 Proceedings of the 2005 ACM symposium on Applied computing SAC '05

Publisher: ACM Press

har straum duntering.

Results (page 3): ("component analysis" or pca) and ("genetic" or evolve or evolutionary) ... Page 5 of 6

Full text available: pdf(182.87 KB) Additional Information: full citation, abstract, references, index terms

It has recently been shown that artificial immune systems (AIS) can be successfully used in many machine learning tasks. The aiNet, one such AIS algorithm exploiting the biologically-inspired features of the immune system, performs well on elementary clustering tasks. This paper proposes the use of the aiNet to more complex tasks of document clustering. Based on the immune network and affinity maturation principles, the aiNet performs an evolutionary process on the raw data, which removes data r....

Keywords: artificial immune system, document clustering

55 Genetic algorithms: Intelligent exploration for genetic algorithms: using self-

organizing maps in evolutionary computation

Heni Ben Amor, Achim Rettinger

ing communications

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press : 1 1

Full text available: pdf(397.40 KB) Additional Information: full citation, abstract, references, index terms

Exploration vs. exploitation is a well known issue in Evolutionary Algorithms. Accordingly, an unbalanced search can lead to premature convergence. GASOM, a novel Genetic Algorithm, addresses this problem by intelligent exploration techniques. The approach uses Self-Organizing Maps to mine data from the evolution process. The information obtained is successfully utilized to enhance the search strategy and confront genetic drift. This way, local optimalare avoided and exploratory power is maintal in the exploration of the search strategy and confront genetic drift.

Keywords: diversity, exploration vs. exploitation, genetic algorithm, genetic drift, premature convergence, self-organizing map

Learning Classifier systems and other genetics-based machine learning: papers:

Hyper-ellipsoidal conditions in XCS: rotation, linear approximation, and solution

structure

Martin V. Butz, Pier Luca Lanzi, Stewart W. Wilson

July 2006 Proceedings of the 8th annual conference on Genetic and evolutionary computation GECCO '06

Publisher: ACM Press

Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, index terms

Keywords: LCS, XCS, function approximation, genetic algorithms, locally weighted learning, recursive least squares

57 Computing curricula 2001

September 2001 Journal on Educational Resources in Computing (JERIC)

Publisher: ACM Press

Full text available: pdf(613.63 KB)
Additional Information: full citation, references, citings, index terms

Jörg Haber, Demetri Terzopoulos

August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH

Publisher: ACM Press

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

Genetic programming: Evolving fuzzy decision tree structure that adapts in real-time



James F. Smith

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

Full text available: 📆 pdf(513.58 KB) Additional Information: full citation, abstract, references, index terms

A fuzzy logic algorithm has been developed that automatically allocates electronic attack (EA) resources distributed over different platforms in real-time. The controller must be able to make decisions based on rules provided by experts. The fuzzy logic approach ... allows the direct incorporation of expertise. Genetic algorithm based optimization is conducted to determine the form of the membership functions for the fuzzy root concepts. The resource manager is made up of five parts, the isolated pl

Keywords: expert systems, fuzzy logic, genetic algorithm, genetic program, resource management, self-morphing ិត្រាស់ ខេត្ត មានស្ថិត បាន**ស្**រាជ្

60 Learning classifier systems and other genetics-based machine learning: DXCS: an the form imprecises a cutology.

The content of the



is ristory and applications.

XCS system for distributed data mining

radering and am salaw.

name to be a serila distributed for the con-

The first trapping The new constituent to read

TROPER TOLER SUBSINEE THE Company of the of Officers

THE RESIDENCE OF THE SAME STATE OF THE SAME OF THE SAM

Hai H. Dam, Hussein A. Abbass, Chris Lokan

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press - - - -

Full text available: pdf(481.30 KB) Additional Information: full citation, abstract, references, index terms XCS is a flexible system for data mining due to its ability to deal with environmental changes, learn online with little prior knowledge and evolve accurate and maximally general classifiers. In this paper, we propose DXCS which is an XCS-based distributed data mining system. A MDL metric is proposed to quantify and analyze network load, and study the balance between network load and classifier accuracy in the presence of noise. The DXCS system shows promising results.

Keywords: MDL, XCS, distributed data mining, learning classifier system

Results 41 - 60 of 200 details Result page: previous 1 - 2 3 4 5 6 - 7 8 9 10

er beit sufskreicht The ACM Portal is published by the Association for Computing Machinery. Copyright © 2007 ACM, Inc. Terms of Usage Privacy Policy Code of Ethics Contact Us

Useful downloads: Adobe Acrobat QuickTime Windows Media Player

Sign in

Google

 Web
 Images
 Video
 News
 Maps
 more »

 +("component analysis" OR pca) +("genetic" Q
 Search
 Advanced Search Preferences

Web Results 1 - 10 of about 333,000 for +("component analysis" OR pca) +("genetic" OR evolve OR evolute

<u>Scholarly articles for +("component analysis" OR pca) +("genetic" OR evolve OR evolutionary) +noise</u>



<u>Prefrontal Broadband Noise, Working Memory, and Genetic ...</u> - Winterer - Cited by 13 <u>Noisy Fitness Evaluation in Genetic Algorithms and the ...</u> - Rattray - Cited by 29 <u>Unsupervised signature extraction and separation in ...</u> - Tu - Cited by 21

[PDF] Continuous estimation of distribution algorithms with ...

File Format: PDF/Adobe Acrobat

Principal **component analysis** (**PCA**) is a powerful technique. in data analysis., The central idea of ... ceedings of the 2000 **Genetic** and **Evolutionary** Com- ... ieeexplore.ieee.org/iel5/7440/20223/00934436.pdf - Similar pages

Welcome to IEEE Xplore 2.0: Genetic algorithm based independent ...

Genetic algorithm based independent component analysis to separate noise from ... A technique is proposed to reduce additive noise from biomedical signals ... ieeexplore.ieee.org/xpls/abs_all.jsp?isnumber=35938& arnumber=1703159&count=98&index=32 - Similar pages

Prefrontal Broadband **Noise**, Working Memory, and **Genetic** Risk for ... In addition, it was observed that prefrontal **noise** possesses trait characteristics and is strongly associated with **genetic** risk for schizophrenia. ... ajp.psychiatryonline.org/cgi/content/full/161/3/490 - Similar pages

[PDF] Prefrontal Broadband Noise, Working Memory, and Genetic Risk for ... File Format: PDF/Adobe Acrobat principle or independent component analysis. This phase ... prefrontal noise would be associated with genetic risk for schizophrenia. Method. Subjects Schizophrenia. Method. Subjects Schizophrenia. psychiatryonline.org/cgi/reprint/161/3/490.pdf - Similar pages 1998 229

[Paper] Solving Nonlinear Source Separation with Genetic Algorithms
Key Words Nonlinear Separation of Sources, Signal Processing, Evolutionary
Computation, Independent Component Analysis, Genetic Algorithms. 1. ...
www.actapress.com/PDFViewer.aspx?paperId=25950 - Similar pages

[Paper] Wrist EMG Pattern Recognition System by Neural Networks ...
KEY WORDS ElectroMyoGram, neural network, Fast Fourier Transform, principal component analysis, genetic algorithm 1. Introduction Conventionally, there have ...
www.actapress.com/PDFViewer.aspx?paperId=18244 - Similar pages

[PDF] Nonlinear fitness—space—structure adaptation and principal ...
File Format: PDF/Adobe Acrobat
component analysis (PCA) approach relates to the assumption ... [7] Wyatt D and Lipson
H 2003 Proc. of Genetic and Evolutionary. Computation Conf. ...
www.iop.org/EJ/article/0022-3727/40/1/017/d7_1_017.pdf - Similar pages

Keith Price Bibliography Signal Processing, Speech Papers

Principal Component Analysis of Speech Spectrogram Images, ... A Noise Robust Frontend for Speech Recognition Using Hough Transform and Cumulative ...

www.visionbib.com/bibliography/other1024.html - 86k - Cached - Similar pages

Keith Price Bibliography Medical Applications

· mamain dhi eeedo dak 🕅 sil - - - -

Application of Neural Networks and Genetic Algorithms in the ... Principal component analysis; Independent component analysis; Psoriasis BibRef ...

http://www.google.com/search?hl=en&q=%2B%28%22component+analysis%22+OR+pca... 2/20/2007

+("component analysis" OR pca) +("genetic" OR evolve OR evolutionary) +noise - Goog... Page 2 of 2 www.visionbib.com/bibliography/medical845.html - 88k - Cached - Similar pages

[PDF] Improving Robustness of Connectionist Speech Recognition Systems ... File Format: PDF/Adobe Acrobat

a Principal Component Analysis (PCA) and Genetic ... in every evolutionary step, the fitness of each individual is. evaluated. The fitness refers to the ... doi.ieeecomputersociety.org/10.1109/ICIIS.1999.810310 - Similar pages

with Fahirstness of C. 1910: William Agreemt

politica (Edi es. exalueta

of Core so light Artalysis (PCA) are the Co.

219 (5) 2 10 (18) 4 4 1 1 1

Result Page: 1 2 3 4 5 6 7 8 9 10

+("component analysis" OR pca) +(" Search

Search within results | Language Tools | Search Tips | Dissatisfied? Help us improve

Google Home - Advertising Programs - Business Solutions - About Google 😘 - 🕬 🖠

©2007 Google

a lary stee, that 📉 🤼

Sign in

Google

 Web
 Images
 Video
 News
 Maps
 more »

 +("component analysis" OR pca) +("genetic" O
 Search
 Advanced Search Preferences

Web Results 11 - 20 of about 334,000 for +("component analysis" OR pca) +("genetic" OR evolve OR evolu

Accounting for probe-level noise in principal component analysis ...

MOTIVATION: Principal Component Analysis (PCA) is one of the most popular ...

Statistical*; Gene Expression Profiling/methods*; Models, Genetic*; Models, ...

www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&

db=PubMed&list_uids=16091409&dopt=Citation - Similar pages

Accounting for probe-level noise in principal component analysis ... MOTIVATION: Principal Component Analysis (PCA) is one of the most popular ... measures associated with the data points beyond a standard spherical noise. ... www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve& db=PubMed&list_uids=16091409&dopt=Abstract - Similar pages

Engineering course descriptions STS-SYSEN

11 (a. 4) | C. 4 (d. 14 19 5 1**9** f) | C.

Variable reduction and/or selection include techniques such as principal component analysis, genetic algorithms, and jack-knifing methods. Noise reduction ...

www.gv.psu.edu/content183.htm - 46k - Cached - Similar pages

Independent component analysis using a genetic algorithm

The independent **component analysis** (ICA) problem involves finding a set of statistically ... performance as signal length and sensor **noise** level are varied. ... adsabs.harvard.edu/abs/2000SPIE.4055..208H - <u>Similar pages</u>

Mathematical modeling of noise and discovery of genetic expression ...

The results yield a genetic analysis of gliomas and identify classes of ... projecting onto the 3-dimensional space (principal component analysis) does not ...

www.nature.com/onc/journal/v21/n47/full/1205654a.html - Similar pages

Accounting for probe-level noise in principal component analysis ...

Motivation: Principal Component Analysis (PCA) is one of the most ... C., Tones, M.,
Holley, M.C. (2002) Genetic profiling of functionally related groups of ...
bioinformatics.oxfordjournals.org/cgi/content/full/21/19/3748?
ijkey=2Elnob2l7AyTWIM&keytype=ref - Similar pages

[PDF] LNCS 3005 - Evolutionary Algorithm-Based Local Structure Modeling ... File Format: PDF/Adobe Acrobat

2.3 Shape Modeling Using Principle Component Analysis (PCA) ... tion, crossover, mutation and survival, referred to as **genetic** operators. A shared ... www.springerlink.com/index/EQ0EJ80GL7RPC2AJ.pdf - <u>Similar pages</u> ...

[PDF] Accounting for Probe-level Noise in Principal Component Analysis ... File Format: PDF/Adobe Acrobat:- View as HTML

Principal Component Analysis (PCA) is one of the most popular dimensionality reduction ... Genetic profiling of functionally related groups of genes during ... umber embnet org/resources/puma/posterECCBa4.pdf - Similar pages

грет Independent Component Analysis- and Evolutionary Algorithm-based ...

File Format: Microsoft Powerpoint.: View as HTML
Two principal components (PCA): 2/15/07. ICONIP'02. Introduction (4). Hypothesis: ... Basis functions weighted by coefficients (plus additive noise) ...

[PDF] Using Principal Component Analysis and Genetic Algorithms ...: File Format: PDF/Adobe Acrobat - View as HTML

pandora.compsci.ualr.edu/cpsc2382-01/papers/boratyn_iconip.ppt - Similar pages

Genetic Algorithms and. PCA were then used (Neural Networks in the. case of [4]) to

http://www.google.com/search?q=%2B(%22component+analysis%22+OR+pca)+%2B(%2... 2/20/2007

+("component analysis" OR pca) +("genetic" OR evolve OR evolutionary) +noise - Goog... Page 2 of 2 explore the space of ... computers to evolve solutions to difficult ... arxiv.org/pdf/cs/0412070 - Similar pages

Result Page. **Previous** 1 2 3 4 5 6 7 8 9 1011

+("component analysis" OR pca) +(" Search

1.1:21:04

Convenience of set (ACPC) in the convenience

the species find entireliefs to a restrict ucs . p 2070 - Employação



รายนา **าด**ารูก กระย์ธนายเดิดดูน. (คิดคูก) โ

Search within results | Language Tools | Search Tips

Google Home - Advertising Programs - Business Solutions - About Google

©2007 Google

Sign in

Google

 Web
 Images
 Video
 News
 Maps
 more »

 +("component analysis" OR pca) +("genetic" O
 Search
 Advanced Search Preferences

Web Results 21 - 30 of about 334,000 for +("component analysis" OR pca) +("genetic" OR evolve OR evolu

Opamp Title-Keyword, Author & ISBN Search Results

电双压 医二氯磺胺酚酚 医动脉丛

.c.) Galiner - Evultorib all., Ett. J

Basic Cost Functions and Adaptive Algorithms for PCA. Robust PCA. ... Genetic Learning in Evolutionary Games. - Equilibria and Evolutionary Stability. ... opamp.com/cf/keyword.cfm?SRow=1&Keywords=algorithm - 65k - Cached - Similar pages

Photo Album

"Genetic Programming Exploratory Power and the Discovery of Functions", Proceedings of the The Fourth Annual Conference on **Evolutionary** Programming, ... www.cs.rochester.edu/u/rosca/publications.htm - 55k - <u>Cached</u> - <u>Similar pages</u>

DBLP: Yen-Wei Chen

... of a **Genetic** Algorithm for Image Restoration and Its Performance Analysis. International Conference on **Evolutionary** Computation 1996: 463-468 ... www.informatik.uni-trier.de/~ley/db/indices/a-tree/c/Chen:Yen=Wei.html - 31k volume Cached - Similar pages

Noisy Fitness Evaluation in Genetic Algorithms and the Dynamics of ... Evolutionary Algorithms in Noisy Environments: Theoretical Issues. ... 16 Genetic Algorithms, Noise, and the Sizing of Populations - Goldberg, Deb et al. ... citeseer.ist.psu.edu/109249.html - 27k - Cached - Similar pages

Socas-Navarro, López Aristé, & Lites, Stokes Inversion Based on ... Communication of eigenprofiles to be used for the inversion, the noise level must be taken into account ideally, the reconstructed ...

www.journals.uchicago.edu/cgi-bin/resolve?id=doi:10.1086/320984 - Similar pageseaming

[PS] Eective dimensionality of large-scale expression data using ...
File Format: Adobe PostScript - View as Text
SE-412 96 Goteborg; Sweden. February 27, 2002. Keywords: genetic regulatory network, gene regulation, PCA, data reduction, noise eects ...
www.nordita.dk/preprints/2002/200280.ps - Similar pages

[РРТ] Genetic Networks

File Format: Microsoft Powerpoint L View as HTML

Principal Component Analysis: (PCA): clustering ... to generate more data sets (the Land biological systems are noise and original data are also noise)

www.bioinfoamss.org/module/8seminar/ppt/lecture12.ppt - Similar pages

inside the fish tube

Int.Workshop on Independent Component Analysis and Blind Signal Separation (ICA2004), 2004, 217-224. Using kernel PCA for Initialisation of Variational ... idea ida.first.fraunhofer.de/~harmeli/research.html - 10k - Cached - Similar pages

рры LNCS 1983 - Integrating KPCA with an Improved Evolutionary ...

File Format: PDF/Adobe Acrobat (**)

As we know, principal component analysis (PCA) has played an important role ... Evolutionary computation mainly composed of four branches: genetic ... www.springerlink.com/index/U7KVYL99H36GGE1X.pdf - Similar pages

Spectral Characterization of digital Cameras using Genetic ...

Do u have any idea why **genetic** algorithm which works very good in case of without **noise**, give such a result whe **noise** is present. ...

conference.iproms.org/spectral_characterization_
of_digital_cameras_using_**genetic_**algorithms - 10k - <u>Cached</u> - <u>Similar pages</u>

http://www.google.com/search?q=%2B(%22component+analysis%22+OR+pca)+%2B(%2... 2/20/2007

Result Page: **Previous** 1 2 3 4 5 6 7 8 9 101112

Next

-0.56gm Tarron ...

+("component analysis" OR pca) +(" Search

ambar illa 1985 a. GM pdup

Fix at Feder Fit was a

Dec portio, japane

| Search within results | Language Tools | Search Tips

Google Home - Advertising Programs - Business Solutions - About Google

©2007 Google



		أ تنسب من من المساول ا
Application		Simbrall?
, ippiioution	1	@CLEUOUDC
Number)	

IDS Flag Clearance for Application 09686115

may the proper the delection of the age of the first
52540
action conf
il-Comodifica

Content -	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
M844	2001-01-25	12	Y 🗹	2003-07-01 10:32:51.0	ldeve
, ඔමුල්ම ,	:				